Air Quality Group HAZARD CONTROL PLAN AND WORK AUTHORIZATION Page 1 of ______ This form is from ESH 17 035

This form is from ESH-17-035				
1. Describe the work to be performed (use continuation page if needed) or give procedure number, revision number, and title.				
HCP-ESH-17-206, R4 Title: "Maintenance of Air Sampling Pumps"				
Describe potential hazards associated with the work (use continuation page if needed).				
Lifting/moving/dropping pumps from vehicles and bench tops				
Trips/falls from moving pumps				
Eye injuries from blowing dust off using compressed air Injuries from use of hand tools and vise				
Injuries from use of hydraulic press in pressing rotor or bearings on/off				
Burns from use of bearing heater in replacing new bearings				
Potential hearing loss from running pumps inside building during break-in procedure				
3. For each hazard, list the likelihood and severity, and the resulting initial risk level (before any work				
controls are applied, as determined according to LIR300-00-01.0, section 7.2)				
Lifting/moving pumps from vehicles and bench topsCritical/Improbable = Low				
Trips/falls from moving pumpsModerate/Improbable = Minimal Eye injuries from blowing dust off using compressed airCritical/Remote = Minimal				
Injuries from use of hand tools and viseModerate/Improbable = Minimal				
Injuries from use of hydraulic press in pressing rotor or bearings on/offCritical/Remote = Minimal				
Burns from using bearing heaterModerate/Improbable = Minimal				
Hearing damage from pump noise Critical/occasional = Medium (ESH-5 measured noise levels: below level that requires hearing protection)				
selow to ter man requires nearing protection)				
Overall initial risk: Minimal Low Medium High				
4. Applicable Laboratory, facility, or activity operational requirements directly related to the work: None List: Work Permits required? No List:				
None List: Work Permits required? No List:				
5. Describe how the hazards listed above will be mitigated (e.g., safety equipment, administrative				
controls, etc.):				
Lifting/moving pumps from vehicles and bench topsuse of hydraulic carts, Tommy tailgate lift, and				
bench tops that are at heights that minimize lifting. Trips/falls from moving pumpsprocedure ESH-17-032 includes training and awareness of tripping				
and fall hazards; use common sense				
Eye injuries from blowing dust off using compressed airpersonnel will wear safety glasses or use the				
sash on the hood set to lowest point.				
Injuries from use of hand tools and viseuse common sense. Injuries from use of hydraulic press in pressing bearing on/offOn the job training required and use				
common sense				
See continuation page				

	Air Quality Group		HCP-ESH-17-206, R4	
HAZARD CONTROL PLA	AN AND WORK	AUTHORIZAT	·	
6. Knowledge, skills, abilities, and traini	ng necessary to safely	perform this wor	This form is from ESH-17-035 k (check one or both):	
Group-level orientation (per \rightarrow Describe:	er ESH-17-032) and tr	aining to applicab	le procedure.	
First Aid/CPR				
	o/			
7. Any wastes and/or residual materials	? (check one) 🔼 N	one List:		
8. Considering the administrative and engineering controls to be used, the <i>residual</i> risk level (as determined according to LIR300-00-01.0, section 7.3.3) is (check one):				
Minimal Low Medium (requires approval by Division Director)				
9. Emergency actions to take in event of None List:	f control failures or ab	normal operation	(check one):	
Apply first aid for all injuries, as applicable, and see that injuried person is transported to either ESH-				
2, occupational medicine group, or a hos	pital.			
After this form is approved, perform the work safely. Identify opportunities for improvements in safety and report these to the safety officer or group leader.				
and report these to the safety officer of group leader.				
Preparer(s) signature(s)	Name(s) (print)	/Position	 Date	
[NOTE: Training to a procedure constitutes author	rization.] If this work is N	OT described by a p	procedure: I have	
reviewed the safety of this proposed work with the group safety officer and I commit to follow safe practices when performing this work.				
Employee signature	Name (print)		 Date	
Employee signature	rvanie (print)		Date	
Additional employee signature (optional)	Name (print)		Date	
Additional ampleyee signature (aptional)	Namo (print)		Data	
Additional employee signature (optional) Group leader or safety officer review.	Name (print)		Date	
I have reviewed the proposed work with 1) the preparer(s) and 2) employees who will perform the work (if not described in a procedure) and I believe the hazards and safety concerns have been adequately addressed. The work as described above				
is hereby authorized. This authorization expires			work as described above	

HAZARD CONTROL PLAN AND WORK AUTHORIZATION Page 3 of ______

Hazard Control Plan continuation page.	Give item number being continued.			
#5 Mitigation of hazards: Burns from using bearing heateruse thermal gl	oves; wire guard in place when heating and cooling.			
Hearing damage Per administrative decision, pumps may be operated indoors for a maximum of two minutes. All long-term pump tests will be conducted outdoors. Pumps may be run indoors overnight but must be turned off or moved outdoors at the beginning of each following work day.				